What Is Claimed Is:

1. An apparatus for recognizing animal species from an animal voice, comprising;

a voice signal collection device for receiving the animal voice and outputting a voice signal ;

a feature extraction module for extracting a target parameter from the voice signal;

at least one storage device for storing a plurality of sample parameter vectors extracted from a plurality of known animal voices and species data corresponding to the sample parameter vectors;

a comparison module for comparing the target parameter vector with the sample parameter vectors to find a matching sample parameter vector similar to the target parameter vector; and

at least one output device for displaying the species data corresponding to the matching sample parameter vector.

2. The apparatus as claimed in claim 1, wherein a plurality of sample parameter vectors correspond to one of the species data.

3. The apparatus as claimed in claim 1, wherein the feature extraction module extracts the target parameter vector according to the rhythm, tune or timbre of the voice signal.

4. The apparatus as claimed in claim 1, wherein the target parameter vector and the matching sample parameter vector have a minimum distance therebetween.

1   5.A method for recognizing animal species from an animal
2 voice, the method comprising:
3   converting an animal voice into a target signal;
4   extracting a target parameter vector from the target
5 signal;
6   comparing the target parameter vector with a plurality of
7 sample parameter vectors stored in a parameter database to
8 obtain a matching sample parameter vector which is similar to
9 the target parameter vector; and
10   outputting species data corresponding to the matching
11 sample parameter vector stored in the parameter database if the
12 matching sample parameter vector is found.

1   6.The method as claimed in claim 5, wherein the parameter
2 database is established by the steps comprising:
3   converting a known animal voice into a sample signal;
4   extracting a sample parameter vector from the sample
5 signal;
6   storing the sample parameter vector into the parameter
7 database; and
8   storing species data corresponding to the sample parameter
9 vector into the parameter database.

1   7.The method as claimed in claim 5 and 6, wherein the steps
2 of extracting the target parameter vector and the sample
3 parameter vectors are according to the rhythm, tune or timbre
4 of the target signal and the sample signal respectively.

1   8.The method as claimed in claim 5, wherein a plurality of
2   sample parameter vectors correspond to one of the species data.

1   9.The method as claimed in claim 5, wherein the matching
2   sample parameter vector and the target parameter have a minimum
3   distance therebetween.